RAW SEQUENCE LISTING

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Application Serial Number: _____ 10/538,985 _____

Source: _____ PCT _____

Date Processed by STIC: _____ 11/08/2005 _____

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PCT

RAW SEQUENCE LISTING   DATE: 11/08/2005
PATENT APPLICATION: US/10/538,985   TIME: 12:19:08

Input Set : **D:\voss008.txt**
Output Set: **N:\CRF4\11082005\J538985.raw**

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     6        HOFFMANN, CARSTEN
     7        LOHSE, MARTIN, JOHANNES
    10 <120> TITLE OF INVENTION: MILLISECOND ACTIVATION SWITCH FOR SEVEN-TRANSMEMBRANE
PROTEINS
    12 <130> FILE REFERENCE: VOSS:008US
C--> 14 <140> CURRENT APPLICATION NUMBER: US/10/538,985
    15 <141> CURRENT FILING DATE: 2005-06-15
    17 <150> PRIOR APPLICATION NUMBER: PCT/EP2003/014679
    18 <151> PRIOR FILING DATE: 2003-12-19
    20 <150> PRIOR APPLICATION NUMBER: EP 03 00 4394.7
    21 <151> PRIOR FILING DATE: 2003-03-03
    23 <150> PRIOR APPLICATION NUMBER: DE 102 59 874.6
    24 <151> PRIOR FILING DATE: 2002-12-19
    26 <160> NUMBER OF SEQ ID NOS: 46
    28 <170> SOFTWARE: PatentIn version 3.1
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    36 <212> TYPE: DNA
    38 <213> ORGANISM: Mouse
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    47 tccctgcagg tgacactgac gctggtttgc ctggctggcc tgctcatgct gttcacagta      180
    49 tttggcaacg tgctggttat tatcgcggtg ttcaccagtc gcgcgctcaa agctccccaa      240
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    55 tatttggctc tcgacgtgct cttttgcacg tcgtccatag tgcacctgtg cgccatcagc      420
    57 cttgaccgct actggtccat cacgcaggcc atcgagtaca acctgaagcg cacgccgcgt      480
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    63 tcttcgcgcc ttgcctcatc atgatcctgg tctacgtgcg tatttaccag atcgccaagc      660
    65 gtcgcacccg cgtgcctccc agccgccggg gtccggacgc ctgttccgcg ccgccggggg      720
    67 gcgccgatcg caggcccaac gggctgggcc cggagcgcgg cgcgggtccc acgggcgctg      780
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    75 aggtgaagcc gggggacagt ctgccgcggc gcgggcccgg ggccgcgggg ccgggggctt     1020
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    79 ggcaaaaccg ggagaaacgc ttcacgttcg tgctggcggt ggtgatcggc gtgttcgtgg     1140
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    83 gccagctctt caacttcttc ttctggttcg gctactgcaa cagctcgctg aaccctgtta     1260
    85 tctacaccat cttcaaccac gacttccgac gcgccttcaa gaagatcctc tgccgtgggg     1320
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112 Gly Gly Thr Arg Ala Thr Pro Tyr Ser Leu Gln Val Thr Leu Thr Leu
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116 Val Cys Leu Ala Gly Leu Leu Met Leu Phe Thr Val Phe Gly Asn Val
117   50   55   60
120 Leu Val Ile Ile Ala Val Phe Thr Ser Arg Ala Leu Lys Ala Pro Gln
121 65   70   75   80
124 Asn Leu Phe Leu Val Ser Leu Ala Ser Ala Asp Ile Leu Val Ala Thr
125   85   90   95
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129   100   105   110
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133   115   120   125
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137   130   135   140
140 Trp Ser Ile Thr Gln Ala Ile Glu Tyr Asn Leu Lys Arg Thr Pro Arg
141 145   150   155   160
144 Arg Ile Lys Ala Ile Ile Val Thr Val Trp Val Ile Ser Ala Val Ile
145   165   170   175
148 Ser Phe Pro Pro Leu Ile Ser Ile Glu Lys Lys Gly Ala Gly Gly Gly
149   180   185   190
152 Gln Gln Pro Ala Glu Pro Ser Cys Lys Ile Asn Asp Gln Lys Trp Tyr
153   195   200   205
156 Val Ile Ser Ser Ser Ile Gly Ser Phe Phe Ala Pro Cys Leu Ile Met
157   210   215   220
160 Ile Leu Val Tyr Val Arg Ile Tyr Gln Ile Ala Lys Arg Arg Thr Arg
161 225   230   235   240
164 Val Pro Pro Ser Arg Arg Gly Pro Asp Ala Cys Ser Ala Pro Pro Gly
165   245   250   255
168 Gly Ala Asp Arg Arg Pro Asn Gly Leu Gly Pro Glu Arg Gly Ala Gly
169   260   265   270
172 Pro Thr Gly Ala Glu Ala Glu Pro Leu Pro Thr Gln Leu Asn Gly Ala
173   275   280   285
176 Pro Gly Glu Pro Ala Pro Ala Gly Pro Arg Asp Gly Asp Ala Leu Asp
177   290   295   300
180 Leu Glu Glu Ser Ser Ser Ser Glu His Ala Glu Arg Pro Pro Gly Pro
181 305   310   315   320
184 Arg Arg Pro Asp Arg Gly Pro Arg Ala Lys Gly Lys Thr Arg Ala Ser
185   325   330   335
188 Gln Val Lys Pro Gly Asp Ser Leu Pro Arg Arg Gly Pro Gly Ala Ala

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192 Gly Pro Gly Ala Ser Gly Ser Gly His Gly Glu Glu Arg Gly Gly Gly
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196 Ala Lys Ala Ser Arg Trp Arg Gly Arg Gln Asn Arg Glu Lys Arg Phe
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200 Thr Phe Val Leu Ala Val Val Ile Gly Val Phe Val Val Cys Trp Phe
201 385                390                395                400
204 Pro Phe Phe Phe Thr Tyr Thr Leu Ile Ala Val Gly Cys Pro Val Pro
205            405                410                415
208 Ser Gln Leu Phe Asn Phe Phe Phe Trp Phe Gly Tyr Cys Asn Ser Ser
209       420                425                430
212 Leu Asn Pro Val Ile Tyr Thr Ile Phe Asn His Asp Phe Arg Arg Ala
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235 ctgcaccgtg ctcaggccca gtgcgaaaaa cggctcaagg aggtcctgca gaggccagcc   180
237 agcataatgg aatcagacaa gggatggaca tctgcgtcca catcagggaa gcccaggaaa   240
239 gataaggcat ctgggaagct ctaccctgag tctgaggagg acaaggaggc acccactggc   300
241 agcaggtacc gagggcgccc ctgtctgccg gaatgggacc acatcctgtg ctggccgctg   360
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245 aaaggccatg cctaccgacg ctgtgaccgc aatggcagct gggagctggt gcctgggcac   480
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249 cgggaggtgt tgaccgcct gggcatgatt tacaccgtgg ctactccgt gtccctggcg    600
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283 cgcctactgc ccactgccac caccaacggc caccctcagc tgcctggcca tgccaagcca  1620
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313         35                  40                  45
316 Glu Lys Arg Leu Lys Glu Val Leu Gln Arg Pro Ala Ser Ile Met Glu
317     50                  55                  60
320 Ser Asp Lys Gly Trp Thr Ser Ala Ser Thr Ser Gly Lys Pro Arg Lys
321 65                  70                  75                  80
324 Asp Lys Ala Ser Gly Lys Leu Tyr Pro Glu Ser Glu Glu Asp Lys Glu
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328 Ala Pro Thr Gly Ser Arg Tyr Arg Gly Arg Pro Cys Leu Pro Glu Trp
329             100                 105                 110
332 Asp His Ile Leu Cys Trp Pro Leu Gly Ala Pro Gly Glu Val Val Ala
333         115                 120                 125
336 Val Pro Cys Pro Asp Tyr Ile Tyr Asp Phe Asn His Lys Gly His Ala
337     130                 135                 140
340 Tyr Arg Arg Cys Asp Arg Asn Gly Ser Trp Glu Leu Val Pro Gly His
341 145                 150                 155                 160
344 Asn Arg Thr Trp Ala Asn Tyr Ser Glu Cys Val Lys Phe Leu Thr Asn
345             165                 170                 175
348 Glu Thr Arg Glu Arg Glu Val Phe Asp Arg Leu Gly Met Ile Tyr Thr
349             180                 185                 190
352 Val Gly Tyr Ser Val Ser Leu Ala Ser Leu Thr Val Ala Val Leu Ile
353         195                 200                 205
356 Leu Ala Tyr Phe Arg Arg Leu His Cys Thr Arg Asn Tyr Ile His Met
357     210                 215                 220
360 His Leu Phe Leu Ser Phe Met Leu Arg Ala Val Ser Ile Phe Val Lys
361 225                 230                 235                 240
364 Asp Ala Val Leu Tyr Ser Gly Ala Thr Leu Asp Glu Ala Glu Arg Leu
365             245                 250                 255
368 Thr Glu Glu Glu Leu Arg Ala Ile Ala Gln Ala Pro Pro Pro Pro Ala
369             260                 265                 270
372 Thr Ala Ala Ala Gly Tyr Ala Gly Cys Arg Val Ala Val Thr Phe Phe
373         275                 280                 285
376 Leu Tyr Phe Leu Ala Thr Asn Tyr Tyr Trp Ile Leu Val Glu Gly Leu
377     290                 295                 300
380 Tyr Leu His Ser Leu Ile Phe Met Ala Phe Phe Ser Glu Lys Lys Tyr
381 305                 310                 315                 320
384 Leu Trp Gly Phe Thr Val Phe Gly Trp Gly Leu Pro Ala Val Phe Val
385             325                 330                 335
388 Ala Val Trp Val Ser Val Arg Ala Thr Leu Ala Asn Thr Gly Cys Trp
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389                 340                 345                 350
392 Asp Leu Ser Ser Gly Asn Lys Lys Trp Ile Ile Gln Val Pro Ile Leu
393         355                 360                 365
396 Ala Ser Ile Val Leu Asn Phe Ile Leu Phe Ile Asn Ile Val Arg Val
397     370                 375                 380
400 Leu Ala Thr Lys Leu Arg Glu Thr Asn Ala Gly Arg Cys Asp Thr Arg
401 385                 390                 395                 400
404 Gln Gln Tyr Arg Lys Leu Leu Lys Ser Thr Leu Val Leu Met Pro Leu
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408 Phe Gly Val His Tyr Ile Val Phe Met Ala Thr Pro Tyr Thr Glu Val
409         420                 425                 430
412 Ser Gly Thr Leu Trp Gln Val Gln Met His Tyr Glu Met Leu Phe Asn
413         435                 440                 445
416 Ser Phe Gln Gly Phe Phe Val Ala Ile Ile Tyr Cys Phe Cys Asn Gly
417     450                 455                 460
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421 465                 470                 475                 480
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437     530                 535                 540
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PATENT APPLICATION: **US/10/538,985**   TIME: 12:19:09

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L:14 M:270 C: Current Application Number differs, Replaced Current Application Number